

Publications Working Group

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Section on Neonatal-Perinatal Medicine

ARTICLES OF INTEREST – October 2021

[Opioid use disorder and perinatal outcomes](#)

Micah Piske, Fahmida Homayra, Jeong E Min, et al. *Pediatrics*.

This retrospective study looked at a 20-year cohort of all women with opioid use disorder (OUD) in British Columbia. This included over 4500 women and 6700 live births. Linked data from 7 health administration databases were queried for maternal demographics, timing of OUD diagnosis, OUD treatment, use of other psychotropic medications, measures of maternal health, infant growth parameters, infant treatment, and infant outcomes. 48% of the cohort was treated with opioid therapy during pregnancy. They found the incidence of perinatal OUD increased over time. Continuation of therapy during pregnancy was associated with a reduced (adjusted) odds ratio of prematurity (0.6, CI 0.4-0.8) and low birth weight (0.4, CI 0.2-0.7). They report that treatment with buprenorphine-naloxone was associated with improved neonatal outcomes compared to methadone. This study highlights the need for comprehensive care services for pregnant women with OUD.

[Reducing severe tracheal intubation events through an individualized airway bundle](#)

Heidi M Herrick, Nicole Pouppirt, Jacqueline Zedalis, et al. *Pediatrics*.

The National Emergency Airway Registry for Neonates (NEAR4NEOS) is an international registry developed in 2014 that tracks tracheal intubation-associated events (TIAEs). The SMART (Specific, Measurable, Applicable, Realistic, and Timely) aim of this single-center QI initiative was to reduce the rate of TIAEs reported to NEAR4NEOS by 10% in 12 months from 0.093 to 0.084. TIAEs included cardiac arrest, delayed recognition of esophageal intubation, airway injury, hypotension, medication error, and others. They developed an airway bundle that addressed communication, patient assessment, and medications. Over the 4-year period described, use of the airway bundle and video laryngoscope increased while TIAEs decreased. Although, use of the bundle remained only 55% and they did not reach the TIAE reduction goal, they demonstrate that use of the bundle is valuable to reduce TIAEs.

[Efficacy and safety of IV sildenafil in the treatment of newborn infants with, or at risk of, persistent pulmonary hypertension of the newborn \(PPHN\): a multicenter, randomized, placebo-controlled trial](#)

Christine M Pierce, Min H Zhang, Baldwin Jonsson, et al. *J Pediatr*.

This multinational, double-blind, placebo-controlled trial included infants who were ≤ 96 hours' old, >34 weeks of gestation, receiving iNO (10-20 ppm on $\geq 50\%$ FiO₂) for PPHN or HRF at risk of PPHN, and had an oxygen index of >15 to <60 . Infants were randomized to intravenous (IV) sildenafil (loading: 0.1 mg/kg, over 30 minutes; maintenance: 0.03 mg/kg/h) (n=29) or placebo (n=30), for up to 14 days. The

authors did not find a significant difference in treatment failure rate (27.6% treatment group versus 20.0% placebo group; $P = .4935$) or mean time on iNO (4.1 days versus 4.1 days)

[Changes in use of respiratory support for preterm infants in the US, 2008-2018](#)

L Dupree Hatch 3rd, Reese H Clark, Waldemar A Carlo, et al. *JAMA Pediatr.*

The retrospective trial included two large national data sets (Pediatrix Clinical Data Warehouse and the National Inpatient Sample) to collect information on infants <35 weeks' gestation who received intensive care between 2008 and 2018. Among 259,311 infants in 359 neonatal intensive care units, decreases were noted in the use (29.4% in 2008 to 18.5% in 2018) and duration (10.3 mean days in 2008 to 9.7 mean days in 2018) of mechanical ventilation. Increases were noted in the use (57.9% in 2008 to 67.4% in 2018) and duration (increase of 3.2 days (95% CI, 2.9-3.6 days)) of noninvasive ventilation and mean duration of respiratory support (13.8 days in 2008 to 15.4 days in 2018).

[Randomized trial of oxygen weaning strategies following chest compressions during neonatal resuscitation](#)

Deepika Sankaran, Payam Vali, Peggy Chen, et al. *Pediatr Res.*

NRP recommends using 100% O₂ during chest compressions and adjusting FiO₂ based on SpO₂ after return of spontaneous circulation. The optimal strategy for adjusting FiO₂ is not known. Using a lamb model of perinatal asphyxial cardiac arrest, the authors found that abrupt weaning of inspired oxygen to 21% prevents excessive oxygen delivery to the brain and oxidative stress compared to gradual weaning from 100% oxygen following return of spontaneous circulation. Clinical studies assessing neurodevelopmental outcomes comparing abrupt and gradual weaning of inspired oxygen after recovery from neonatal asphyxial arrest are warranted.

[Retrospective comparison of death or neurodevelopmental outcomes in extremely low birth weight preterm infants following different management options of haemodynamically significant patent ductus arteriosus](#)

Jania Jia-Ying Wu, Krishnamoorthy Niduvaje, Le Ye Lee, et al. *BMC Pediatr.*

The optimal management of haemodynamically significant patent ductus arteriosus (HsPDA) in premature infants remains controversial. The authors sought to compare death and/or adverse neurodevelopmental outcomes in extremely low birth weight (ELBW) infants with HsPDA who were managed with conservative [C], medical [M] and/or surgical [S] treatment, with a secondary aim to examine short-term morbidities among [S] and [C] groups. Compared to conservative management, infants requiring [M + S] treatment for HsPDA were more likely to have short-term complications such as CLD, elevated creatinine, and poorer growth. Despite a more turbulent postnatal course, death and/or adverse neurodevelopmental outcomes were not worse in infants managed with [M + S].

[Antibiotic stewardship in NICU: De-implementing routine CRP to reduce antibiotic usage in neonates at risk for early-onset sepsis](#)

Neetu Singh and James E Gray. *J Perinatol.*

This is a single-center retrospective Pre-post cohort study evaluating the change in antibiotic utilization rate (AUR) by eliminating routine CRP and placing an automatic stop order for antibiotics at 48hrs for neonatal early-onset sepsis (EOS). The practice change resulted in an absolute reduction of 30% in AUR and a decrease in the proportion of neonates receiving antibiotics from the day of life 3-6 in post-intervention period without any case of partially treated EOS after change in practice. Subgroup analysis showed significant reduction in antibiotic use between the day of life 5-7 among infants born >35 weeks gestation but not among infants born ≤35 weeks gestation.

[Is late treatment with acetaminophen safe and effective in avoiding surgical ligation among extremely preterm neonates with persistent patent ductus arteriosus?](#)

Sally Mashally, Rudaina Banihani, Bonny Jasani, et al. *J Perinatol*.

This is a retrospective comparative study of extremely low gestational age neonates (ELGANs) with persistent patent ductus arteriosus (pPDA) investigating the association of late treatment with acetaminophen vs. immediate surgical ligation with death or neurodevelopmental impairment among ELGANs with pPDA being considered for ligation. ELGANs in epoch 1 (2009-2012, n=43) were referred for ligation, while infants in epoch 2 (2012-2015; n=49) received oral acetaminophen (7 days) and referred for ligation in the absence of improvement. ELGANs in epoch 2 had reduced ligation compared to epoch 1 (aOR 0.30; 95%CI: [0.11, 0.87]), without significant difference in death/NDI at 18-24 months (aOR 1.03; 95%CI: [0.30, 3.56]), supporting the safety and effectiveness of this approach.

[Long-term outcomes after early neonatal hyperglycemia in VLBW infants: a systematic review](#)

Megan E Paulsen, Sarah Jane Brown, Katherine M Satrom, et al. *Neonatology*.

A systematic review to assess the effects of hyperglycemia in VLBW infants was conducted and identified 987 infants in 8 studies and reported long term outcomes from 4 months corrected gestational age to 7 years old. Overall evidence quality was found to be low with some studies reporting differences in growth, metabolic health and neurodevelopmental outcomes between VLBW infants with and without hyperglycemia, while other studies found no differences between groups. Authors propose potential study design for standardizing the assessment of long term metabolic and neurodevelopmental outcomes following early hyperglycemia in preterm infants.

[Behavioral and brain morphological analysis of non-inflammatory and inflammatory rat models of preterm brain injury](#)

Ruben Rocha, Leonardo Andrade, Tânia Alves, et al. *Neurobiol Learn Mem*.

The authors evaluated if the neurodevelopmental and behavioral consequences of preterm birth induced from non-inflammatory preterm birth would differ from those after inflammatory hypoxia-ischemia (TSHI) model in rats. On day 21, compared to preterm birth, TSHI rats had delayed neonatal reflexes, reduced anxiety, and impaired spatial learning and memory, and a reduction of hippocampal cholinergic varicosities. These results suggest that a preterm non-inflammatory environment does not change neonatal development or adult neurologic outcome, but prenatal HIE modifies development, learning, memory, and neurogenesis likely through inflammatory means.

OTHER NOTEWORTHY PUBLICATIONS – October, 2021

COVID-19

Evaluation of messenger RNA from COVID-19 BTN162b2 and mRNA-1273 vaccines in human milk

<https://pubmed.ncbi.nlm.nih.gov/34228115>

Coronavirus disease 2019 (COVID-19) and pregnancy outcomes: state of the science

<https://pubmed.ncbi.nlm.nih.gov/34433179/>

Pediatrics

Early-onset sepsis among very preterm infants

<https://www.ncbi.nlm.nih.gov/pubmed/34493539>

Opioid use disorder and perinatal outcomes

<https://www.ncbi.nlm.nih.gov/pubmed/34479983>

Newborn pulse oximetry for infants born out-of-hospital

<https://www.ncbi.nlm.nih.gov/pubmed/34531289>

Neonatal stress, health, and development in preterms: a systematic review

<https://www.ncbi.nlm.nih.gov/pubmed/34548378>

** Decreasing continuous positive airway pressure failure in preterm infants

<https://www.ncbi.nlm.nih.gov/pubmed/34552000>

Reducing severe tracheal intubation events through an individualized airway bundle

<https://www.ncbi.nlm.nih.gov/pubmed/34526350>

Journal of Pediatrics

Changes in self-reported quality of life as survivors of extremely preterm birth enter adulthood

<https://pubmed.ncbi.nlm.nih.gov/34029599>

Growth and nutritional intake of infants with univentricular circulation

<https://pubmed.ncbi.nlm.nih.gov/34171362>

A fetal risk stratification pathway for neonatal aortic coarctation reduces medical exposure

<https://pubmed.ncbi.nlm.nih.gov/34181988>

Long-term neurodevelopmental outcomes of children with congenital heart defects

<https://pubmed.ncbi.nlm.nih.gov/34157347>

Growth rates of infants randomized to continuous positive airway pressure or intubation after extremely preterm birth

<https://pubmed.ncbi.nlm.nih.gov/34157349>

Efficacy and safety of IV sildenafil in the treatment of newborn infants with, or at risk of, persistent pulmonary hypertension of the newborn (PPHN): a multicenter, randomized, placebo-controlled trial

<https://pubmed.ncbi.nlm.nih.gov/34052232>

Low birth weight as an early-life risk factor for adult stroke among men

<https://pubmed.ncbi.nlm.nih.gov/34186103>

Long-term neurodevelopmental outcomes after moderate and late preterm birth: a systematic review

<https://pubmed.ncbi.nlm.nih.gov/34171360>

Neighborhood disadvantage and early respiratory outcomes in very preterm infants with bronchopulmonary dysplasia

<https://pubmed.ncbi.nlm.nih.gov/34216631>

Cerebral palsy in very preterm infants: a nine-year prospective study in a French population-based tertiary center

<https://pubmed.ncbi.nlm.nih.gov/34144033>

Acute and chronic placental abnormalities in a multicenter cohort of newborn infants with hypoxic–ischemic encephalopathy

<https://pubmed.ncbi.nlm.nih.gov/34144032>

Neonatal cranial ultrasound findings among infants born extremely preterm: associations with neurodevelopmental outcomes at 10 years of age

<https://pubmed.ncbi.nlm.nih.gov/34090894>

Bloodstream infections in preterm neonates and mortality-associated risk factors

<https://pubmed.ncbi.nlm.nih.gov/34166670>

Outcomes for infants born in perinatal centers performing fewer surgical ligations for patent ductus arteriosus: a Swiss population-based study

<https://pubmed.ncbi.nlm.nih.gov/34157348>

Pulmonary function tests in very low birth weight infants screened for pulmonary hypertension: a pilot study

<https://pubmed.ncbi.nlm.nih.gov/34181990>

Health-related quality of life from adolescence to adulthood following extremely preterm birth

<https://pubmed.ncbi.nlm.nih.gov/33836186>

Neuroimaging of the preterm brain: review and recommendations

<https://pubmed.ncbi.nlm.nih.gov/34146549>

Pediatric Research

The impact of antenatal cannabis use on the neonate: Time for open engagement?

<https://pubmed.ncbi.nlm.nih.gov/34117358/>

In neonatal sepsis every catheter matters

<https://pubmed.ncbi.nlm.nih.gov/33866330/>

Phenotyping preterm infants at birth to predict infection risk

<https://pubmed.ncbi.nlm.nih.gov/34099853/>

Neonatal chest compressions: time to act

<https://pubmed.ncbi.nlm.nih.gov/34108623/>

Role of macrophages in fetal development and perinatal disorders

<https://pubmed.ncbi.nlm.nih.gov/33070164/>

Point-of-care lung ultrasound in neonatology: classification into descriptive and functional applications

<https://pubmed.ncbi.nlm.nih.gov/30127522/>

Exposure to Δ 9-tetrahydrocannabinol during rat pregnancy leads to impaired cardiac dysfunction in postnatal life

<https://pubmed.ncbi.nlm.nih.gov/33879850/>

Randomized trial of oxygen weaning strategies following chest compressions during neonatal resuscitation

<https://pubmed.ncbi.nlm.nih.gov/33941864/>

Chorioamnionitis induces changes in ovine pulmonary endogenous epithelial stem/progenitor cells in utero

<https://pubmed.ncbi.nlm.nih.gov/33070161/>

The effects of IGF-1 and erythropoietin on apoptosis and telomerase activity in necrotizing enterocolitis model

<https://pubmed.ncbi.nlm.nih.gov/33096541/>

Pulmonary immune cell transcriptome changes in double-hit model of BPD induced by chorioamnionitis and postnatal hyperoxia

<https://pubmed.ncbi.nlm.nih.gov/33446917/>

Surfactant lung delivery with LISA and InSurE in adult rabbits with respiratory distress

<https://pubmed.ncbi.nlm.nih.gov/33452472/>

Cause of preterm birth and late-onset sepsis in very preterm infants: the EPIPAGE-2 cohort study

<https://pubmed.ncbi.nlm.nih.gov/33627822/>

Longitudinal neurodevelopmental outcomes in preterm twins

<https://pubmed.ncbi.nlm.nih.gov/32172281/>

Cardiovascular management following hypoxic–ischemic encephalopathy in North America: need for physiologic consideration

<https://pubmed.ncbi.nlm.nih.gov/33070162/>

Early visuospatial attention and processing and related neurodevelopmental outcome at 2 years in children born very preterm

<https://pubmed.ncbi.nlm.nih.gov/33070166/>

The preterm infant–parent programme for attachment—PIPPA Study: a randomised controlled trial

<https://pubmed.ncbi.nlm.nih.gov/33432155/>

Severe acute kidney injury in neonates with necrotizing enterocolitis: risk factors and outcomes

<https://pubmed.ncbi.nlm.nih.gov/33446918/>

Gut priming with bovine colostrum and T regulatory cells in preterm neonates: a randomized controlled trial

<https://pubmed.ncbi.nlm.nih.gov/33446924/>

Lung function between 8 and 15 years of age in very preterm infants with fetal growth restriction

<https://pubmed.ncbi.nlm.nih.gov/33469172/>

Preterm birth and genitourinary tract infections: assessing gene–environment interaction

<https://pubmed.ncbi.nlm.nih.gov/33070163/>

Human milk oligosaccharides, infant growth, and adiposity over the first 4 months of lactation

<https://pubmed.ncbi.nlm.nih.gov/33446921/>

Family reflections: premature twins
<https://pubmed.ncbi.nlm.nih.gov/34040159/>

Archives of Disease in Childhood - Fetal & Neonatal Edition

No new content

Journal of Perinatology

Review: Functional movement assessment with the Test of Infant Motor Performance

<https://pubmed.ncbi.nlm.nih.gov/33883688/>

Optimizing respiratory management in preterm infants: a review of adjuvant pharmacotherapies

<https://pubmed.ncbi.nlm.nih.gov/34244615/>

Association of maternal fertility status and receipt of fertility treatment with healthcare utilization in infants up to age four

<https://pubmed.ncbi.nlm.nih.gov/33649443/>

Regional comparison of self-reported late pregnancy cigarette smoking to mass spectrometry analysis

<https://pubmed.ncbi.nlm.nih.gov/33758398/>

Conjoined twins: an obstetrician's guide to prenatal care and delivery management

<https://pubmed.ncbi.nlm.nih.gov/34158580/>

The Test of Infant Motor Performance (TIMP) in very low birth weight infants and outcome at two years of age

<https://pubmed.ncbi.nlm.nih.gov/34127791/>

Preterm and writhing movements: is it possible to predict fidgety movements in preterm infants?

<https://pubmed.ncbi.nlm.nih.gov/33986474/>

Randomized clinical trial investigating the effect of consistent, developmentally-appropriate, and evidence-based multisensory exposures in the NICU

<https://pubmed.ncbi.nlm.nih.gov/34012055/>

Prioritization framework for improving the value of care for very low birth weight and very preterm infants

<https://pubmed.ncbi.nlm.nih.gov/34075201/>

*Primary cytomegalovirus infection during pregnancy and congenital infection: a population-based, mother-child, prospective cohort study

<https://pubmed.ncbi.nlm.nih.gov/34285356/>

Early-onset sepsis: a cohort study comparing serial clinical observation with laboratory testing

<https://pubmed.ncbi.nlm.nih.gov/34239042/>

Antibiotic stewardship in NICU: De-implementing routine CRP to reduce antibiotic usage in neonates at risk for early-onset sepsis

<https://pubmed.ncbi.nlm.nih.gov/34103671/>

Real-time ultrasound-guided lumbar puncture in the neonatal intensive care unit

<https://pubmed.ncbi.nlm.nih.gov/34274942/>

Impact of early-onset sepsis guidelines on breastfeeding

<https://pubmed.ncbi.nlm.nih.gov/34362994/>

Adverse events associated with umbilical catheters: a systematic review and meta-analysis

<https://pubmed.ncbi.nlm.nih.gov/34272469/>

The incidence of pericardial effusion requiring intervention in infants with a history of umbilical catheter placement: the US national database

<https://pubmed.ncbi.nlm.nih.gov/34462551/>

Is late treatment with acetaminophen safe and effective in avoiding surgical ligation among extremely preterm neonates with persistent patent ductus arteriosus?

<https://pubmed.ncbi.nlm.nih.gov/34453113/>

Covariation of changing patent ductus arteriosus management and preterm infant outcomes in Pediatric neonatal intensive care units

<https://pubmed.ncbi.nlm.nih.gov/34354226/>

Association of time of day and extubation success in very low birthweight infants: a multicenter cohort study

<https://pubmed.ncbi.nlm.nih.gov/34304243/>

Hydrops fetalis—trends in associated diagnoses and mortality from 1997–2018

<https://pubmed.ncbi.nlm.nih.gov/34385586/>

Etiology and outcome of non-immune hydrops fetalis in relation to gestational age at diagnosis and intrauterine treatment

<https://pubmed.ncbi.nlm.nih.gov/34489542/>

Quality Improvement article: Changing safety culture

<https://pubmed.ncbi.nlm.nih.gov/33024255/>

Neonatology

Long-term outcomes after early neonatal hyperglycemia in VLBW infants: a systematic review

<https://pubmed.ncbi.nlm.nih.gov/34412051/>

Review: Neonatal hypoglycaemia: a never-ending story?

<https://pubmed.ncbi.nlm.nih.gov/33752207/>

Clinical diversity of cerebral sinovenous thrombosis and arterial ischaemic stroke in the neonate: a surveillance study

<https://pubmed.ncbi.nlm.nih.gov/33784682/>

Lung ultrasound in bronchopulmonary dysplasia: patterns and predictors in very preterm infants

<https://pubmed.ncbi.nlm.nih.gov/34515177/>

Potential heart, liver, and kidney donation after circulatory determination of death in a neonatal intensive care unit

<https://pubmed.ncbi.nlm.nih.gov/34352783/>

Continuous deep sedation until death in neonates and infants in Flanders: a post-mortem survey

<https://pubmed.ncbi.nlm.nih.gov/34515169/>

Comparison of nice guideline cg149 and the sepsis risk calculator for the management of early-onset sepsis on the postnatal ward

<https://pubmed.ncbi.nlm.nih.gov/34518475/>

Ultrasound for endotracheal tube tip position in term and preterm infants

<https://pubmed.ncbi.nlm.nih.gov/34515159/>

Introduction of a quality improvement bundle is associated with reduced exposure to mechanical ventilation in very preterm infants

<https://pubmed.ncbi.nlm.nih.gov/34515183/>

Less-invasive surfactant administration for neonatal respiratory distress syndrome: a consensus guideline

<https://pubmed.ncbi.nlm.nih.gov/34515188/>

Neonatal hemoglobin levels in preterm infants are associated with early neurological functioning

<https://pubmed.ncbi.nlm.nih.gov/34515185/>

Bioreactance cardiac output trending ability in preterm infants: a single centre, longitudinal study

<https://pubmed.ncbi.nlm.nih.gov/34518489/>

Reference values for umbilical artery lactate by mode of delivery and gestational age: a retrospective observational study

<https://pubmed.ncbi.nlm.nih.gov/34515182/>

Surfactant treatment of late preterm infants during emergency transport: a retrospective, observational study

<https://pubmed.ncbi.nlm.nih.gov/34569541/>

Pharmacokinetics of baclofen in a full-term newborn after intrauterine exposure: a case report

<https://pubmed.ncbi.nlm.nih.gov/34569533/>

American Journal of Perinatology

Congenital malformation risk according to hemoglobin a1c values in a contemporary cohort with pregestational diabetes

<https://pubmed.ncbi.nlm.nih.gov/34087946>

Is neonatal hyperbilirubinemia exposure associated with a risk of autism spectrum disorder? A nationwide cohort study

<https://pubmed.ncbi.nlm.nih.gov/32168527>

Tidal breathing parameters measured by structured light plethysmography in newborns: is it feasible in neonatal intensive care unit?

<https://pubmed.ncbi.nlm.nih.gov/32276278>

Consistency between impedance technique and echocardiogram hemodynamic measurements in neonates

<https://pubmed.ncbi.nlm.nih.gov/32334438>

Factors associated with early neonatal and first-year mortality in infants with myelomeningocele in California from 2006 to 2011

<https://pubmed.ncbi.nlm.nih.gov/32473597>

Hypothyroxinemia detected at 4 weeks of life in preterm infants born at less than 30 weeks of gestation

<https://pubmed.ncbi.nlm.nih.gov/32498093>

Intermittent hypoxemia in preterm infants: a potential proinflammatory process

<https://pubmed.ncbi.nlm.nih.gov/32512605>

Effects of neonatal caffeine administration on vessel reactivity in adult mice

<https://pubmed.ncbi.nlm.nih.gov/32485758>

Effect of vasopressin on systemic and pulmonary hemodynamics in neonates

<https://pubmed.ncbi.nlm.nih.gov/32485754>

Journal of Neonatal-Perinatal Medicine

No new content

Maternal Health, Neonatology and Perinatology

No new content

Neoreviews

Available instruments to assess pain in infants

<https://www.ncbi.nlm.nih.gov/pubmed/34599062>

Laryngomalacia in the premature neonate

<https://www.ncbi.nlm.nih.gov/pubmed/34599063>

Congenital pigmentary anomalies in the newborn

<https://www.ncbi.nlm.nih.gov/pubmed/34599064>

Surfactant administration through laryngeal or supraglottic airways

<https://www.ncbi.nlm.nih.gov/pubmed/34599065>

A newborn with a mass on the brain

<https://www.ncbi.nlm.nih.gov/pubmed/34599066>

Case of hemolytic disease of the newborn due to a rare red cell antibody

<https://www.ncbi.nlm.nih.gov/pubmed/34599067>

A full-term infant with seizures

<https://www.ncbi.nlm.nih.gov/pubmed/34599068>

Use of methadone maintenance therapy for opioid use disorder in pregnancy

<https://www.ncbi.nlm.nih.gov/pubmed/34599069>

A rare skin disorder with bacteremia in a neonate

<https://www.ncbi.nlm.nih.gov/pubmed/34599070>

Oeis syndrome: omphalocele, exstrophy of the cloaca, imperforate anus, and spinal defects

<https://www.ncbi.nlm.nih.gov/pubmed/34599071>

JAMA Pediatrics

Evolving respiratory care of the preterm infant

<https://pubmed.ncbi.nlm.nih.gov/34228122>

Changes in use of respiratory support for preterm infants in the US, 2008-2018

<https://pubmed.ncbi.nlm.nih.gov/34228110>

Association of high screen-time use with school-age cognitive, executive function, and behavior outcomes in extremely preterm children

<https://pubmed.ncbi.nlm.nih.gov/34251406>

Temporal trends in neurodevelopmental outcomes to 2 years after extremely preterm birth

<https://pubmed.ncbi.nlm.nih.gov/34279561>

BMC Pediatrics

Preemptive analgesic effectiveness of single dose intravenous ibuprofen in infants undergoing cleft palate repair: a randomized controlled trial

<https://pubmed.ncbi.nlm.nih.gov/34674670/>

Prenatal prognostic factors for isolated right congenital diaphragmatic hernia: a single center's experience

<https://pubmed.ncbi.nlm.nih.gov/34666738/>

Retrospective comparison of death or neurodevelopmental outcomes in extremely low birth weight preterm infants following different management options of haemodynamically significant patent ductus arteriosus

<https://pubmed.ncbi.nlm.nih.gov/34663266/>

Lipid enemas for meconium evacuation in preterm infants – a retrospective cohort study

<https://pubmed.ncbi.nlm.nih.gov/34657609/>

Severe protein C deficiency in a newborn caused by a homozygous pathogenic variant in the PROC gene: a case report

<https://pubmed.ncbi.nlm.nih.gov/34654403/>

Pregnancy and Infant Development (PRIDE)—a preliminary observational study of maternal adversity and infant development

<https://pubmed.ncbi.nlm.nih.gov/34649513/>

Traditional Mongolian swaddling and developmental dysplasia of the hip: a randomized controlled trial

<https://pubmed.ncbi.nlm.nih.gov/34641800/>

Component of oligomeric Golgi complex 1 deficiency leads to hypoglycemia: a case report and literature review

<https://pubmed.ncbi.nlm.nih.gov/34625039/>

Ileal Dieulafoy lesion arose 15 years after partial small bowel resection for meconium obstruction of the neonate: a case report

<https://pubmed.ncbi.nlm.nih.gov/34620131/>

Time to death and its associated factors among infants in sub-Saharan Africa using the recent demographic and health surveys: shared frailty survival analysis

<https://pubmed.ncbi.nlm.nih.gov/34607560/>

Parental experience of the neuromotor development of children with congenital heart disease: an exploratory qualitative study

<https://pubmed.ncbi.nlm.nih.gov/34598680/>

Enteral feeding advancement and growth until 5 years in extremely preterm infants

<https://pubmed.ncbi.nlm.nih.gov/34556084/>

Comparison of nostril sizes of newborn infants with outer diameter of endotracheal tubes

<https://pubmed.ncbi.nlm.nih.gov/34556062/>

Pediatric Critical Care Medicine

Neurally adjusted ventilator assist in infants with acute respiratory failure: a literature scoping review

<https://pubmed.ncbi.nlm.nih.gov/33852545/>

New England Journal of Medicine

No neonatal content

Lancet

Telehealth use in antenatal care? Not without women's voices

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8516368/>

Telehealth use in antenatal care? Not without women's voices – Authors' reply

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8516368/>

JAMA

Trends in mortality among pregnant and recently pregnant women in the US, 2015-2019

<https://pubmed.ncbi.nlm.nih.gov/34698794/>

BMJ

Conduct and reporting of formula milk trials: systematic review (PDF)

<https://www.bmj.com/content/bmj/375/bmj.n2202.full.pdf>

Pediatric Infectious Disease Journal

Response to vaccination in infants exposed to antitumor necrosis factor alpha in utero

<https://pubmed.ncbi.nlm.nih.gov/34260494/>

Characteristics and outcomes of neonates with blood stream infection due to *Listeria Monocytogenes*

<https://pubmed.ncbi.nlm.nih.gov/34310508/>

Neonatal community-acquired *Raoultella Ornithinolytica* septicemia: A case report and review of the literature

<https://pubmed.ncbi.nlm.nih.gov/34260488/>

Neonatal Fournier's Gangrene: avoiding extensive debridement

<https://pubmed.ncbi.nlm.nih.gov/34292272/>

Pediatric Cardiology

Fetal diagnosis is associated with improved perioperative condition of neonates requiring surgical intervention for coarctation

<https://pubmed.ncbi.nlm.nih.gov/33988733/>

Transcarotid approach to ventricular septal defect closure in small infants

<https://pubmed.ncbi.nlm.nih.gov/34081172/>

Identification of novel and potent modulators involved in neonatal cardiac regeneration

<https://pubmed.ncbi.nlm.nih.gov/34046720/>

Reliability of fetal echocardiography in predicting postnatal critical hypoxia in patients with transposition of great arteries and intact ventricular septum

<https://pubmed.ncbi.nlm.nih.gov/34052858/>

Pediatric Neurology

Performance in hand coordination tasks and concurrent functional MRI findings in 13-year-olds born very preterm

<https://pubmed.ncbi.nlm.nih.gov/34339952/>

Obstetrics and Gynecology

Neonatal outcomes after delivery in water

<https://pubmed.ncbi.nlm.nih.gov/34623074/>

Perinatal outcomes of two screening strategies for gestational diabetes mellitus

<https://pubmed.ncbi.nlm.nih.gov/34259458/>

American Journal of Obstetrics & Gynecology

Placental features of fetal vascular malperfusion and infant neurodevelopmental outcomes at 2 years of age in severe fetal growth restriction

<https://pubmed.ncbi.nlm.nih.gov/33812813/>

The risk of recurrent small-for-gestational-age infants at term is dependent on the number of previously affected births

<https://pubmed.ncbi.nlm.nih.gov/33848539/>

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